

Substitute Form PTO-1449
(Modified)U.S. Department of Commerce
Patent and Trademark OfficeAttorney's Docket No.
08213-007001Application No.
09/423,546
**Information Disclosure Statement
by Applicant**
(Use several sheets if necessary)

(37 CFR §1.98(b))

Applicant
Elliott Bennett-Guerrero et al.Filing Date
November 12, 1999Group Art Unit
1645**U.S. Patent Documents**

Examiner Initial	Desig. ID	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date If Appropriate
mg	AA	4,416,872	11/22/83	Alving et al.	424	177	359,012
mg	AB	4,789,544	12/6/88	Nelson et al.	424	92	127,492
	AC						

Foreign Patent Documents or Published Foreign Patent Applications

Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
mg	AD	WO 92/16624	10/1/92	PCT	C12N	15/13		
mg	AE	WO 87/07148	12/3/87	PCT	A61K	39/116		
mg	AF	WO 92/06709	4/30/92	PCT	A61K	39/02		
mg	AG	WO 93/10216	5/27/93	PCT	A61N	1/36		
mg	AH	WO 95/29662	11/9/95	PCT	A61K			

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mg	AI	Alving et al., Liposomes as Carriers of Peptide Antigens: Induction of Antibodies and Cytotoxic T Lymphocytes to Conjugated and Unconjugated Peptides, Immunological Reviews, No. 145 pp. 5-31 (1995)
mg	AJ	Antonov et al., Synthesis and Serological Characterization of L-glycero- α -D-manno-heptopyranose-containing di- and tri-saccharides of the non-reducing terminus of the <i>Escherichia coli</i> K-12 LPS core Oligosaccharide, Carbohydrate Research 314:85-93 (1998)
mg	AK	Appelmelk et al., Production and Characterization of Mouse Monoclonal Antibodies Reacting with the lipopolysaccharide Core Region of Gram-Negative Bacilli, J. Med. Microbiol. 26:107-114 (1988)
mg	AL	Aydintug et al., Cross-Reactivity of Monoclonal Antibodies to <i>Escherichia coli</i> J5 with Heterologous Gram-Negative Bacteria and Extracted Lipopolysaccharides, J. Infectious Diseases 160:846-857 (1989)
mg	AM	Bakouche et al., Enhancement of Immunogenicity of Tumour Virus Antigen by Liposomes: The Effect of Lipid Composition, Immunology 58:507-513 (1986)
mg	AN	Bakouche et al., Impairment of Immunogenicity by Antigen Presentation in Liposomes Made from Dimyristoylphosphatidyl-Ethanolamine Linked to the Secretion of Prostaglandins by Macrophages, Eur. J. Immunol. 17:1839-1842 (1987)
mg	AO	Banerji et al., Membrane Lipid Composition Modulates the Binding Specificity of a Monoclonal Antibody Against Liposomes, Biochimica et Biophysica Acta 689:319-326 (1982)

Examiner Signature <i>RPSwartz</i>	Date Considered <i>9-13-01</i>
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Information Disclosure Statement BY A PATENT (Use several sheets if necessary) (37 CFR §1.98(b))		Applicant Elliott Bennett-Guerrero et al.		
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Other Documents (include Author, Title, Date, and Place of Publication)				
Examiner Initial	Desig. ID	Document		
<i>MW</i>	AP	Barclay, Endogenous Endotoxin-Core Antibody (EndoCAb) as a Marker of Endotoxin Exposure and a Prognostic Indicator: A Review, Bacterial Endotoxins: Lipopolysaccharides From Genes to Therapy, pages 263-272, 1995 Wiley-Liss, Inc.		
<i>MW</i>	AQ	Baumgartner et al., Antibodies to Lipopolysaccharides after Immunization of Humans with the Rough Mutant Escherichia coli J5, J. Infectious Diseases 163:769-772 (1991)		
	AR	Bhattacharjee et al., A Noncovalent Complex Vaccine Prepared with Detoxified Escherichia coli J5 (Re Chemotype) Lipopolysaccharides and Neisseria meningitidis Group B Outer Membrane Protein Produces Protective Antibodies Against Gram-Negative Bacteremia, J. Infectious Diseases 173:1157-1163 (1996)		
<i>MW</i>	AS	Bjornson et al., Specificity of Immunoglobulin M Antibodies in Normal Human Serum That Participate in Opsonophagocytosis and Intracellular Killing of Bacteroides fragilis and Bacteroides thetaiotaomicron by Human Polymorphonuclear Leukocytes, Infection and Immunity 30:263-271 (1980)		
<i>MW</i>	AT	Brade et al., The Immunogenicity and Antigenicity of Lipid A Are Influenced by its Physicochemical State and Environment, Infection and Immunity 55:2636-2644 (1987)		
<i>MW</i>	AU	Campbell et al., Immunogenicity of 24-Valent Klebsiella Capsular Polysaccharide Vaccine and an Eight-Valent Pseudomonas O-Polysaccharide Conjugate Vaccine Administered to Victims of Actue Trauma, Clinical Infectious Diseases 23:179-181 (1996)		
<i>MW</i>	AV	Chanderbhan et al., Sterol Carrier Protein: Further Evidence for its Role in Adrenal Steroidogenesis, Endocrine Research 12:351-370 (1986)		
<i>MW</i>	AW	Chedid et al., A Proposed Mechanism for Natural Immunity to Enterobacterial Pathogens, J. Immunology 100:292-301 (1968)		
<i>MW</i>	AX	Cohen et al., Double-blind Vaccine-Controlled Randomised Efficacy Trial of an Investigational Shigella sonnei Conjugate Vaccine in Young Adults, The Lancet 349:155-159 (1997)		
<i>MW</i>	AY	Cryz, Jr. et al., Effect of Chemical and Heat Inactivation on the Antigenicity and Immunogenicity of Vibrio cholerae, Infection and Immunity 38:21-26 (1982)		
<i>MW</i>	AZ	Cryz Jr. et al., Safety and Immunogenicity of a Pseudomonas aeruginosa O-Polysaccharide Toxin A Conjugate Vaccine in Humans, J. Clin. Invest. 80:51-56 (1987)		
<i>MW</i>	BA	DeMaria et al., Immunization with Rough Mutants of Salmonella Minnesota: Initial Studies in Human Subjects, J. Infectious Diseases 158:301-311 (1988)		
<i>MW</i>	BB	De Padova et al., A Broadly Cross-Protective Monoclonal Antibody Binding to Escherichia coli and Salmonella Lipopolysaccharides, Infection and Immunity 61:3863-3872 (1993)		
<i>MW</i>	BC	Dlabac et al., Pathogenicity and Protective Effect of Rough Mutants of Salmonella Species in Germ-Free Piglets, Infection and Immunity 65:5238-5243 (1997)		
<i>MW</i>	BD	Evans et al., Lipopolysaccharide Heterogeneity in Escherichia coli J5 Variants: Analysis by Flow Cytometry, J. Infectious Diseases 166:803-811 (1992)		
<i>MW</i>	BE	Fagelman et al., Simulated Surgical Wound Infection in Mice, Arch. Surg. 116:761-764 (1981)		
<i>MW</i>	BF	Fricks and Hogle, Cell-Induced Conformational Change in Poliovirus: Externalization of the Amino Terminus of VP1 is Responsible for Liposome Binding, J. Virology 64:1934-1945 (1990)		
<i>MW</i>	BG	Galanos et al., Immunogenic Properties of Lipid A, Review of Infectious Diseases 6:546-556 (1984)		

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<i>MJ</i>	BH	Galanos et al., Lipopolysaccharide: Properties of an Amphipathic Molecule, Handbook of Endotoxin Vol. 1: Chemistry of Endotoxin, pp. 46-58 (1984)
<i>MJ</i>	BI	Gerlier et al., Liposomes as a Tool to Study the Role of Membrane Presentation in the Immunogenicity of a MuLV-Related Tumor Antigen, J. Immunology 131:485-490 (1983)
<i>MJ</i>	BJ	Giardino et al., Characteristics of Systemic Antibody Responses of Nonhuman Primates Following Active Immunization with Porphyromonas gingivalis, Prevotella intermedia and Bacteroides fragilis, Oral Microbiol Immunol 11:79-87 (1996)
<i>MJ</i>	BK	Garnier et al., Enhancement of In Vivo and In Vitro T Cell Response Against Measles Virus Haemagglutinin After its Incorporation into Liposomes: Effect of the Phospholipid Composition, Vaccine 9:340:345 (1991)
<i>MJ</i>	BL	Gerlier et al., Efficient Major Histocompatibility Complex Class II-restricted Presentation of Measles Virus Relies on Hemagglutinin-mediated Targeting to its Cellular Receptor Human CD46 Expressed by Murine B Cells, J. Exp. Med. 179:353-358 (1994)
<i>MJ</i>	BM	Gerlier et al., Induction of Antibody Response to Liposome-Associated Gross-Virus Cell-Surface Antigen (GCSAA) Br. J. Cancer 41:236-242 (1980)
<i>MJ</i>	BN	Dijkstra, Chapter 5: A Comparison of Methods for the Preparation of Lipopolysaccharide-Containing Liposomes, Liposome Technology 2 nd Edition, Volume II Entrapment of Drugs and Other Materials, edited by Gregoriadis, CRC Press, London (1993)
<i>MJ</i>	BO	Greisman et al., Experiment Gram-Negative Bacterial Sepsis: Reevaluation of the Ability of Rough Mutant Antisera to Protect Mice (40231), Proceedings of the Society for Experimental Biology and Medicine 158:482-490 (1978)
<i>MJ</i>	BP	Gupta et al., Comparative Immunogenicity of Conjugates Composed of Escherichia coli O111 O-Specific Polysaccharide, Prepared by Treatment with Acetic Acid or Hydrazine, Bound to Tetanus Toxoid by Two Synthetic Schemes, Infection and Immunity 63:2805-2810 (1995)
<i>MJ</i>	BQ	Hamilton-Davies et al., Endotoxin Immune Status and Protection Against Multiple Organ Dysfunction Syndrome in the Surgical Patient, pp. 24-38
<i>MJ</i>	BR	Hodgin et al., Effect of Active and Passive Immunizations with Lipid A and Salmonella Minnesota Re 595 on Gram-Negative Infections in Mice, Infection 4:5-10 (1976)
<i>MJ</i>	BS	Ivanoff et al., Secondary Immune Response to Oral and Nasal Rough Mutant Strains of Salmonella Typhimurium, Ann. Immunol. (Inst. Pasteur) 133:61-70 (1982)
<i>MJ</i>	BT	Jansson et al., Structural Studies on the Hexose Region of the Core in Lipopolysaccharides from Enterobacteriaceae, Eur. J. Biochem. 115:571-577 (1981)
<i>MJ</i>	BU	Johns et al., Immunization with R Mutants of Salmonella Minnesota II. Serological Response to Lipid A and the Lipopolysaccharide of Re Mutants, Infection and Immunity 17:9-15 (1977)
<i>MJ</i>	BV	De Jongh-Leuvenink et al., Detection of Antibodies Against Lipopolysaccharides of Escherichia coli and Salmonella R and S Strains by Immunoblotting, Infection and Immunity 50:716-720 (1985)
<i>MJ</i>	BW	Kasper et al., Quantitative Determination of the Antibody Response and the Capsular Polysaccharide of Bacteroides fragilis in an Animal Model of Intraabdominal Abscess Formation, J. Infectious Diseases 156:789-795 (1977)
<i>MJ</i>	BX	Kenny et al., Antibody Responses in Rabbits to Salmonella Minnesota R-Mutants, Zbl. Bakt. Hyg. I. Abt. Orig. A 217:183-197 (1971)

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<i>MW</i>	BZ	Lugowski et al., Characterization and Diagnostic Application of a Lipopolysaccharide Core Oligosaccharide-Protein Conjugate, J. Immunological Methods 95:187-194 (1986)
<i>MW</i>	CA	Lugowski et al., Immunochemical Characterization of Citrobacter Strain PCM 1487 O-specific Polysaccharide- and Core Oligosaccharide-Protein Conjugates, FEMS Microbiology Immunology 89:201-208 (1992)
<i>MW</i>	CB	Lugowski et al., Serological Characterization of Anti-Endotoxin Sera Directed Against the Conjugates of Oligosaccharide Core of Escherichia coli type R1, R2, R3, J5 and Salmonella Ra with Tetanus Toxoid, FEMS Immunology and Medical Microbiology 16:21-30 (1996)
<i>MW</i>	CC	Lugowski et al., Anti-endotoxin Antibodies Directed Against Escherichia coli R-1 Oligosaccharide Core-Tetanus Toxoid Conjugate Bind to Smooth, Live Bacteria and Smooth Lipopolysaccharides and Attenuate Their Tumor Necrosis Factor Stimulating Activity, FEMS Immunology and Medical Microbiology 16:31-38 (1996)
<i>MW</i>	CD	Lugowski, Immunotherapy in Gram-Negative Bacterial Infections, Acta Biochimica Polonica 42:19-24 (1995)
	CE	Manning et al., Molecular Cloning and Expression in Escherichia coli K-12 of the O Antigens of the Inaba and Ogawa Serotypes of the Vibrio cholerae O1 Lipopolysaccharides and Their Potential for Vaccine Development, Infection and Immunity 53:272-277 (1986) missing
<i>MW</i>	CF	Matthay et al., Antibody-Directed Liposomes: Comparison of Various Ligands for Association, Endocytosis, and Drug Delivery, Cancer Research 46:4904-4910 (1986)
<i>MW</i>	CG	McCabe et al., Immunization with Rough Mutants of Salmonella Minnesota: Protective Activity of IgM and IgG Antibody to the R595 (Re Chemotype) Mutant, J. Infectious Diseases 158:291-300 (1988)
<i>MW</i>	CH	McCabe, Immunization with R Mutants of S. Minnesota I. Protection Against Challenge with Heterologous Gram-Negative Bacteria, J. Immunology 108:601-610 (1972)
<i>MW</i>	CI	McCabe et al., Cross-Reactive Antigens: Their Potential for Immunization-Induced Immunity to Gram-Negative Bacteria, J. Infectious Diseases 136:S161-166 (1977)
<i>MW</i>	CJ	Miler et al., A New Polyvalent Pseudomonas Vaccine, J. Med. Microbiol. 10:19-27 (1977)
<i>MW</i>	CK	Mullan et al., Protection Against Gram-Negative Infections with Antiserum to Lipid A from Salmonella Minnesota R595, Infection and Immunity 10:1195-1201 (1974)
<i>MW</i>	CL	Neter et al., Immunogenicity and Antigenicity of Endotoxic Lipopolysaccharides: Reversible Effects of Temperature on Immunogenicity, J. Infectious Diseases 128:56-60 (1973)
<i>MW</i>	CM	Nixdorff et al., Heterogeneity of the Haemagglutinin Responses to Salmonella Minnesota R-Antigens in Rabbits, J. General Microbiology 71:425-440 (1972)
<i>MW</i>	CN	Nixdorff et al., Immunological Responses to Salmonella R Antigens: The Bacterial Cell and the Protein Edestin as Carriers for R Oligosaccharide Determinants, Immunology 29:87-102 (1975)
<i>MW</i>	CO	Nnalue and Shnyra, The Lipopolysaccharide Core Domain as a Target in Immunotherapy of Sepsis, Unpublished abstract from meeting in Washington DC, Oct. 21-22, 1996
<i>MW</i>	CP	Nnalue et al., The Disaccharide L- α -D-Heptose1 \rightarrow 7-L- α -D-Heptose1 \rightarrow of the Inner Core Domain of Salmonella Lipopolysaccharide is Accessible to Antibody and is the Epitope of a Broadly Reactive Monoclonal Antibody, J. Immunology 149:2722-2728 (1992)

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<i>MW</i>	CQ	Ogert et al., Studies of the Topography of the Catalytic Site of Acetylcholinesterase Using Polyclonal and Monoclonal Antibodies, <i>J. Neurochemistry</i> 55:756-763 (1990)	
<i>MW</i>	CR	Peter et al., Limited Protective Effect of Rough Mutant Antisera in Murine <i>Escherichia coli</i> Bacteremia, <i>Infection</i> 10:228-232 (1982)	
<i>MW</i>	CS	Petrov et al., Toxicity and Immunogenicity of <i>Neisseria Meningitidis</i> Lipopolysaccharide Incorporated into Liposomes, <i>Infection and Immunity</i> 60:3897-3903 (1992)	
<i>MW</i>	CT	Powers et al., In Previously Immunized Elderly Adults Inactivated Influenza A (H1N1) Virus Vaccines Induce Poor Antibody Responses that are not Enhanced by Liposome Adjuvant, <i>Vaccine</i> 13:1330-1335 (1995)	
<i>MW</i>	CU	Poxton, Review Article: Antibodies to Lipopolysaccharide, <i>J. Immunological Methods</i> 186:1-15 (1995)	
<i>MW</i>	CV	Rietschel et al., Bacterial Lipopolysaccharides: Relationship of Structure and Conformation to Endotoxic Activity, Serological Specificity and Biological Function in Friedman, H., Klein T.W., Nakano, M., and Nowotny, A. (Eds.), <i>Endotoxin</i> , pp. 81-99, Plenum, New York (1990)	
<i>MW</i>	CW	Romanowska et al., Non-typical Lipopolysaccharide Core Regions of Some <i>Hafnia alvei</i> Strains: Structural and Serological Studies, <i>FEMS Immunology and Medical Microbiology</i> 24:63-71 (1999)	
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<i>MW</i>	CZ	Rowe et al., Structure of the Core Oligosaccharides from the Lipopolysaccharide of <i>Pseudomonas aeruginosa</i> PAC1R and its Defective Mutants, <i>Eur. J. Biochem.</i> 132:329-337 (1983)	
	DA	Schlecht, Active Immunization to Experimental Salmonellosis in Mice Protective Properties of Salmonella R Mutants Against Infection with Different Pathogenic Salmonella Species, Zbl. Bakt. Hyg. I. Abt. Orig. A 249:362-372 (1981)	
	DB	Schlecht et al., Protective Role of Salmonella R Mutants in Salmonella Infection in Mice, Zbl. Bakt. Hyg. I. Abt. Orig. A 245:71-88 (1979)	
<i>MW</i>	DC	Seydel et al., Structural Polymorphisms of Rough Mutant Lipopolysaccharides Rd to Ra from <i>Salmonella Minnesota</i> , <i>J. Structural Biology</i> 110:232-243 (1993)	
<i>MW</i>	DD	Shnyra et al., Role of Physical State of <i>Salmonella</i> Lipopolysaccharide in Expression of Biological and Endotoxic Properties, <i>Infection and Immunity</i> 61:5351-5360 (1993)	
<i>MW</i>	DE	Skelly et al., Stimulation of T-Independent Antibody Responses by Hapten-Lipopolysaccharides Without Repeating Polymeric Structure, <i>Infection and Immunity</i> 23:287-293 (1979)	
<i>MW</i>	DF	Skelly et al., Immune Responses to Hapten-Lipopolysaccharide Conjugates in Mice II. Characterization of the Molecular Requirements for the Induction of Antibody Synthesis, <i>J. Immunology</i> 124:468-473 (1980)	
<i>MW</i>	DG	Stabel et al., Comparison of Polyclonal Antibodies to Three Different Preparation of <i>Mycobacterium paratuberculosis</i> in Immunohistochemical Diagnosis of Johne's Disease in Cattle, <i>J. Vet. Diagn. Invest.</i> 8:469-473 (1996)	
<i>MW</i>	DH	Stanislavsky et al., Specific and Non-specific Mouse Protection Induced by Different Chemotypes of the <i>Pseudomonas aeruginosa</i> lipopolysaccharides, <i>FEMS Microbiology Immunology</i> 105:181-190 (1992)	

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<i>MJS</i>	DI	Stanislavsky et al., R-Form Lipopolysaccharides (LPS) of Gram-negative Bacteria as Possible Vaccine Antigens, FEMS Immunology and Medical Microbiology 18:139-145 (1997)	
<i>MJS</i>	DJ	Stanislavsky et al., Mouse Protection Induced by Pseudomonas aeruginosa PAC1R and its Defective Mutants, Salmonella Minnesota Re-Mutant and Escherichia coli O14, FEMS Immunology and Medicla Microbiology 11:81-86 (1995)	
<i>MJS</i>	DK	Stewart et al., Dependence of the Surface Expression of the Glycolipid Cerebroside Sulfate on Its Lipid Environment: Comparison of Sphingomyelin and Phosphatidylcholine, Biochemistry 29:3644-3653 (1990)	
<i>MJS</i>	DL	Strittmatter et al., Characterization of Protein Co-Extracted Together with LPS in Escherichia coli, Salmonella Minnesota, and Yersinia Enterocolitica, Microbial. Pathogenesis 2:29-36 (1987)	
<i>MJS</i>	DM	Svenson et al., Immunochemistry of Salmonella O-Antigens: Preparation of an Octasaccharide-Bovine Serum Albumin Immunogen Representative of Salmonella Serogroup B O-Antigen and Characterization of the Antibody Response, J. Immunology 120:1750-1757 (1978)	
<i>MJS</i>	DN	Suzuki et al., Direct Extraction of A and B Blood Group Antigens from Human Red Cells by Liposomes, Transfusion 36:966-968 (1996)	
<i>MJS</i>	DO	Swierzko et al., Specificity of Rabbit Antisera Against the Rough Lipopolysaccharide of Salmonella Minnesota R4 (Chemotype Rd ₂ P'), Infection and Immunity 61:3216-3221 (1993)	
<i>MJS</i>	DP	Tabaraie et al., Evaluation of Salmonella Porins as a Broad Spectrum Vaccine Candidate, Microbiol. Immunol. 38:553-559 (1994)	
<i>MJS</i>	DQ	Tan, Liposomes as Antigen Vehicles to Increase Immunogenicity: Effects of Variation of Structural Characteristics, Annals Academy of Medicine 20:78-83 (1991)	
<i>MJS</i>	DR	Tannock et al., Association of Salmonella typhimurium with, and Its Invasion of, the Ileal Mucosa in Mice, Infection and Immunity 11:365-370 (1975)	
<i>MJS</i>	DS	Therien et al., Liposomal Vaccine: Influence of Antigen Association on the Kinetics of the Humoral Response, Vaccine 8:558-562 (1990)	
<i>MJS</i>	DT	Trautmann et al., Antiserum Against Escherichia coli J5: A Re-evaluation of its In Vitro and In Vivo Activity Against Heterologous Gram-negative Bacteria, Infection 13:140-145 (1985)	
<i>MJS</i>	DU	Trudel et al., Antibody Response to Rubella Virus Proteins in Different Physical Forms, Antiviral Research 2:347-354 (1982)	
<i>MJS</i>	DV	Van de Wijgert et al., Immunogenicity of Streptococcus pneumoniae Type 14 Capsular Polysaccharide: Influence of Carriers and Adjuvants on Isotype Distribution, Infection and Immunity 59:2750-2757 (1991)	
<i>MJS</i>	DW	Wilson et al., Evidence for Different Requirements in Physical State for the Interaction of Lipopolysaccharides with the Classical and Alternative Pathways of Complement, Eur. J. Biochem. 128:137-141 (1982)	
<i>MJS</i>	DX	Yasuda et al., Immunogenicity of Liposomal Model Membranes in Mice: Dependence of Phospholipid Composition, Proc. Natl. Acad. Sci. USA 74:1234-1236 (1977)	
<i>MJS</i>	DY	Ziegler et al., Treatment of Gram-negative Bacteremia and Shock with Human Antiserum to a Mutant Escherichia coli, N. Engl. J. Med. 307:1225-1230 (1982)	

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